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Relevance scale

- 1** [Emerging technologies: On-chip characterization of molecular electronic devices using CMOS: the design and simulation of a hybrid circuit based on experimental molecular electronic device results](#)

Nadine Gergel-Hackett, Garrett S. Rose, Peter Paliwoda, Christina A. Hacker, Curt A. Richter
 March 2007 **Proceedings of the 17th great lakes symposium on Great lakes symposium on VLSI GLSVLSI '07**

Publisher: ACM Press

Full text available: [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The focus of the field of molecular electronics in recent years has been mostly limited to the development of molecular electronic test devices and the characterization of electron transport through organic molecules. However, in order for molecular electronic technology to be realized, it is probable that these devices will have to first be integrated with traditional CMOS components and circuits. For this reason, we present the design of a molecular device/CMOS hybrid circuit that exemplifies ...

Keywords: hybrid circuits, molecular electronics

- 2** [Embedded tutorial: integrating nanoelectronics, biotechnology and MEMS/NEMS:](#)

[Organic electronic device modeling at the nanoscale](#)

Conor Madigan, Vladimir Bulović

November 2006 **Proceedings of the 2006 IEEE/ACM international conference on Computer-aided design ICCAD '06**

Publisher: ACM Press

Full text available: [pdf\(173.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Electronic devices with nanoscale features (~ 100 nm or smaller) are becoming increasingly important in electronics technology. While nanoscale electronic devices comprise a variety of different material sets and structures, many of the nanoscale devices developed in the last decade employ organic materials. In this talk, we discuss the modeling of organic electronic thin film devices. In our approach, analysis of such devices begins on the molecular scale, and device level behavior is then d ...

Keywords: device modeling, molecular, nanoscale, organic

3

- [The development of a simple, low cost set of universal access features for electronic](#)

 **devices**

Chris Law, Gregg Vanderheiden

November 2000 **Proceedings on the 2000 conference on Universal Usability CUU '00**

Publisher: ACM Press

Full text available:  [pdf\(1.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A simple set of universal access features has been developed, which can be applied to almost any public or personal electronic device, providing access for people with a wide variety of sensory and physical disabilities, and a wide variety of functional limitations imposed by circumstance. Implementing the features require adding one to three buttons to the device (or using existing buttons on a device if appropriate), adding speech output and enhancing the programming of the device to utilize ...

Keywords: EZ access, accessibility, disability, interface design, speech interface

- 4 **Short talks-Specialized section: interaction techniques for handheld devices: Typing in thin air: the canesta projection keyboard - a new method of interaction with** 

 **electronic devices**

Helena Roeber, John Bacus, Carlo Tomasi

April 2003 **CHI '03 extended abstracts on Human factors in computing systems CHI '03**

Publisher: ACM Press

Full text available:  [pdf\(178.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Canesta Keyboard is a novel interface to electronic devices that consists of a projection system and a sensor module instead of the mechanical switches of a traditional keyboard. Users input text by pressing keys on a projected image of a keyboard. This paper describes the advantages and drawbacks of this interface compared to existing input methods for mobile devices in terms of data entry speed, error rate, user satisfaction and physical size as revealed through usability testing.

- 5 **Molecular electronics: devices, systems and tools for gigagate, gigabit chips** 



Michael Butts, Andrée DeHon, Seth Copen Goldstein

November 2002 **Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design ICCAD '02**

Publisher: ACM Press

Full text available:  [pdf\(606.87 KB\)](#)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

New electronics technologies are emerging which may carry us beyond the limits of lithographic processing down to molecular-scale feature sizes. Devices and interconnects can be made from a variety of molecules and materials including bistable and switchable organic molecules, carbon nanotubes, and, single-crystal semiconductor nanowires. They can be self-assembled into organized structures and attached onto lithographic substrates. This tutorial reviews emerging molecular-scale electronics tech ...

- 6 **Joint session with UIST: A system for fast, full-text entry for small electronic devices** 



Saeid B. Nesbat

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces ICMI '03**

Publisher: ACM Press

Full text available:  [pdf\(493.66 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A novel text entry system designed based on the ubiquitous 12-button telephone keypad and its adaptation for a soft keypad are presented. This system can be used to enter full text (letters + numbers + special characters) on devices where the number of keys or the keyboard area is limited. Letter-frequency data is used for assigning letters to the positions of a 3x3 matrix on keys, enhancing the entry of the most frequent Letters performed by a double-click. Less frequent letters and characters ...

Keywords: Fitts' law, keypad input, mobile phones, mobile systems, pen-based, soft keyboard, stylus input, text entry

- 7 Electronic devices, structures and transport in carbon based materials: molecular electronics and quantum computing

 Deepak Srivastava

March 2001 **Proceedings of the 11th Great Lakes symposium on VLSI GLSVLSI '01**

Publisher: ACM Press

Full text available:  pdf(119.26 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

- 8 Wireless and mobile computing: Project54 system software architecture

Albert Pelhe, Andrew L. Kun, W. Thomas Miller

January 2004 **Proceedings of the winter international symposium on Information and communication technologies WISICT '04**

Publisher: Trinity College Dublin

Full text available:  pdf(198.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Project54 is an effort to incorporate embedded mobile computing equipment and wireless networking into New Hampshire State Police cruisers. At the center of the system is the Application Manager - an executable application running under Windows 2000. It manages the execution of a set of applications. Most of the applications control individual electronic devices. The Application Manager allows one-to-one communication between applications. Using one-to-one communication applications can control, ...

- 9 Distributed objects research, experiences and applications: Distributed components in the Project54 system

Albert Pelhe, Nevenka Kozomora, Andrew L. Kun, W. Thomas Miller

January 2004 **Proceedings of the winter international symposium on Information and communication technologies WISICT '04**

Publisher: Trinity College Dublin

Full text available:  pdf(187.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The Project54 system integrates in-car based electronic systems, software and user interfaces. It also allows officers to access the in-car system using handheld devices. The Project54 system software implemented in the car is completely modular and is based on Microsoft's Component Object Model (COM). There is a main executable application and individual applications that control in-car electronic devices or provide other services. A simple modular COM architecture was developed for a handheld ...

- 10 Architecture: Fine-grained island style architecture for molecular electronic devices

 Mohammad Tehranipoor, Reza M. Rad

February 2006 **Proceedings of the 2006 ACM/SIGDA 14th international symposium on Field programmable gate arrays FPGA '06**

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

In this paper a fine-grained island style architecture is proposed based on crossbars of

nanowires with diode-logic created by molecular devices. A multiple-bit access mechanism is the main requirement for the clusters in every island style architecture to provide inputs, outputs and configuration bits. Island style FPGA architecture with its rich interconnect capabilities seems to be a proper choice for high-level architectures in nanoscale devices. Providing appropriate access to all clusters ...

11 Designing CMOS/molecular memories while considering device parameter variations

 Garrett S. Rose, Yuxing Yao, James M. Tour, Adam C. Cabe, Nadine Gergel-Hackett, Nabanita Majumdar, John C. Bean, Lloyd R. Harriott, Mircea R. Stan
April 2007 **ACM Journal on Emerging Technologies in Computing Systems (JETC)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  pdf(612.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, many advances have been made in the development of molecular scale devices. Experimental data shows that these devices have potential for use in both memory and logic. This article describes the challenges faced in building crossbar array-based molecular memory and develops a methodology to optimize molecular scale architectures based on experimental device data taken at room temperature. In particular, issues in reading and writing such as memory using CMOS are discussed, an ...

Keywords: CMOS, molecular electronics, nanotechnology

12 Position statements: Multimedia middleware for the future home

 Reinhard Baler, Christian Gran, Angela Scheller, Andreas Zisowsky
October 2001 **Proceedings of the 2001 international workshop on Multimedia middleware M3W**

Publisher: ACM Press

Full text available:  pdf(730.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Applications which are intended for the home of the future require a common multimedia middleware which takes the particular requirements of residential environments into account. HAVi is a potential candidate for such a middleware. It aims to handle the communication between different kinds of consumer electronic devices. Based on IEEE 1394 it provides broadband connectivity which could be extended to other home appliances. This paper briefly introduces the HAVi specification and positions HAVi ...

Keywords: home networking, multimedia middleware

13 Ubiquitous computing (UC): Hiding complexity and heterogeneity of the physical world in smart living environments

 Thierry Bodhuin, Gerardo Canfora, Rosa Preziosi, Maria Tortorella
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available:  pdf(290.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Continuous technological advances lead to computerize all the electronic devices and connect them in a network, so that in the future physical and virtual worlds will be integrated and interoperate each other at the point that browsing the reality will be similar to browsing the Web. Heterogeneous networked devices, services satisfying needs of people and living environments equipped with devices and services, will have to collaborate instead of working independently for offering to the end-user ...

Keywords: coordination mechanisms, devices virtualization, entity description graph, physical concepts, virtual world

14 Challenges: Challenges:: environmental design for pervasive computing systems

 Ravi Jain, John Wullert

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**

Publisher: ACM Press

Full text available:  pdf(212.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We argue that pervasive computing offers not only tremendous opportunities and exciting research challenges but also possible negative environmental impacts, particularly in terms of physical waste and energy consumption. These environmental impacts will come under increasing government and consumer scrutiny, and like other disciplines (e.g. architecture, transportation), pervasive computing will have to adapt accordingly. Further, we argue that software-related issues will play an increasing ro ...

Keywords: environmental impacts, green computing, pervasive computing

15 Optical interconnect technology developments (invited paper)

L. D. Hutcheson

November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**

Publisher: IEEE Computer Society Press

Full text available:  pdf(859.23 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

16 Risk transparency: Protecting domestic power-line communications

 Richard Newman, Sherman Gavette, Larry Yonge, Ross Anderson

July 2006 **Proceedings of the second symposium on Usable privacy and security SOUPS '06**

Publisher: ACM Press

Full text available:  pdf(135.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we describe the protection goals and mechanisms in HomePlug AV, a next-generation power-line communications standard. This is a fascinating case-history in security usability. There are also novel protocol issues; interactions with mechanisms at other layers; and opportunities for both researchers and third-party vendors to build on the mechanisms provided. The central problem -- being sure whether a device being enrolled in the network is the device you think, not a similar one ne ...

Keywords: authentication, power-line communication, security

17 Special session on reliable computing: A dependability perspective on emerging technologies

 Lucian Prodan, Mihai Udrescu, Mircea Vladutiu

May 2006 **Proceedings of the 3rd conference on Computing frontiers CF '06**

Publisher: ACM Press

Full text available:  pdf(660.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Emerging technologies are set to provide further provisions for computing in times when the limits of current technology of microelectronics become an ever closer presence. A technology roadmap document lists biologically-inspired computing and quantum computing as two emerging technology vectors for novel computing architectures [43]. But the potential benefits that will come from entering the nanoelectronics era and from exploring novel nanotechnologies are foreseen to come at the cost of incr ...

Keywords: bio-inspired computing, bio-inspired digital design, dependability, embryonics, emerging technologies, evolvable hardware, fault-tolerance assessment, quantum computing, reliability

18 Demonstrations: Multi-application smartcard user interface

 John Pleunis, Michal Stala

November 2004 **Proceedings of the 2nd European Union symposium on Ambient intelligence EUSAI '04**

Publisher: ACM Press

Full text available:  pdf(129.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes a demonstrator that uses an abstract user interface for enabling users to interact with applications on a smart card, using advanced consumer electronic devices.

Keywords: abstract UI, consumer electronics, multi-application smartcard, security

19 Systems and architectures: A DRM security architecture for home networks

 Bogdan C. Popescu, Bruno Crispo, Andrew S. Tanenbaum, Frank L.A.J. Kamperman

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management DRM '04**

Publisher: ACM Press

Full text available:  pdf(222.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a security architecture allowing digital rights management in home networks consisting of consumer electronic devices. The idea is to allow devices to establish dynamic groups, so called "Authorized Domains", where legally acquired copyrighted content can seamlessly move from device to device. This greatly improves the end-user experience, preserves "fair use" expectations, and enables the development of new business models by content providers. Key to our design is a hyb ...

Keywords: DRM architectures, compliant CE devices, digital content protection

20 Emerging topics in signal integrity and reliability: An analytical model for negative bias temperature instability

 Sanjay V. Kumar, Chris H. Kim, Sachin S. Sapatnekar

November 2006 **Proceedings of the 2006 IEEE/ACM international conference on Computer-aided design ICCAD '06**

Publisher: ACM Press

Full text available:  pdf(288.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Negative Bias Temperature Instability (NBTI) in PMOS transistors has become a significant reliability concern in present day digital circuit design. With continued scaling, the effect of NBTI has rapidly grown in prominence, forcing designers to resort to a pessimistic design style using guard-banding. Since NBTI is strongly dependent on the time for which the PMOS device is stressed, different gates in a combinational circuit experience varying extents of delay degradation. This has necessit ...

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1 Contributed papers: A tradeoff between compositionality and complexity in the semantics of dimensional adjectives



Geoffrey Simmons

 April 1993 **Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available:


[Additional Information: full citation, abstract, references](#)
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Linguistic access to uncertain quantitative knowledge about physical properties is provided by dimensional adjectives, e.g. *long-short* in the spatial and temporal senses, *near-far*, *fast-slow*, etc. Semantic analyses of the dimensional adjectives differ on whether the meaning of the differential comparative (*6 cm shorter than*) and the equative with factor term (*three times as long as*) is a compositional function of the meanings the difference and factor terms (*6 cm a ...*).

Keywords: *AI-methods in computational linguistics, semantics*

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